SOURCE CODE: UR/0124/66/000/007/B041/B041 ACC NRT AR6033804

AUTHOR: Usanov, V. V.

TITLE: Some problems of averaging gas flows

SOURCE: Ref. zh. Mekhanika, Abs. 7B317

REF SOURCE: Tr. Vses. n.-i. in-ta kriogen., kislorodn. i kompressorn.

mashinostr., vyp. 10, 1965, 96-104

TOPIC TAGS: gas flow, flow velocity, averaging

ABSTRACT: A theoretical study has been made of the problem of applying a one-dimensional model to various cases of gas flow. It is shown that any averaging of parameters inevitably leads to the loss of some of the properties of the gas flow. Therefore, it is necessary to make a thorough analysis of errors resulting from each specific method of averaging. It has been shown that at a great population of the velocity profile, the field coefficient exhibits a weak dependence on the law of averaging of velocities. The application of equations of a one-dimensional model, in this case, results in an insignificant error when determining the velocity. Bibliography of 4 titles. Yu. A. Lashkov. [Translation of abstract]

SUB CODE: 13/

GANDEL SMAN, A.F., kand. tekhn. nauk; USANOV, V.V., inzh.; NAUPITS, L.N., inzh.

New data on heat exchange and hydrodynamic resistance in the nearsonic region of a gas flow. Trudy VINNKIMASH no.10:105-114 *65. (MIRA 18:9)

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UDC: 669.26!24!28:669.011.7

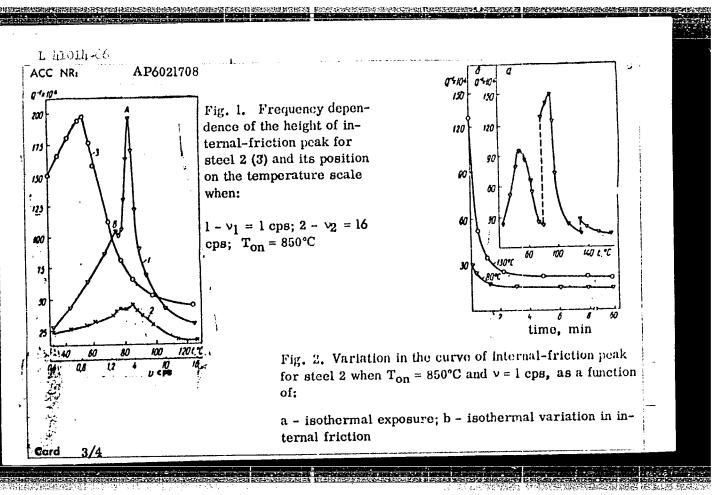
41016-66 SAT(m)/T/EMP(t)/MII ACC NR. AP6021708 SOURCE CODE: UR/0148/66/000/003/0136/0139 Postnikov, V. S.; Burmistrov, V. N. ORG: Voronezh Polytechnic Institute (Voronezhskiy politekhnicheskiy institut) TITLE: Certain features of martensitic transformation in steels of the austenitic-martensitic class SOURCE: IVUZ. Chernaya metallurgiya, no. 3, 1966, 136-139 TOPIC TAGS: martensitic transformation, austenite steel, martensite steel, torsional vibration, internal friction, metal grain structure ABSTRACT: This is a continuation of previous investigations (V. S. Postnikov et al. Izv. VUZ Chernaya metallurgiya, 1964, no. 11; V. S. Postnikov et al. Sb. Instituta metallurgii im. Baykova, "Issledovaniye staley i splavov," Izd-vo "Nauka," 1964, 364), with the difference that it deals with certain features of the course of Y - M transformation in austenitic steels of the transition class, as determined by tests of internal friction, resistivity, and magnetometry and dilatometry in the process of cooling. These steels, conditionally denoted 1 and 2, contain 0.07 and 0.08% C, 16.8 and 15.98% Cr^{γ} 5.35 and 5.35% Ni, and 1.85 and 3.08% Mo, respectively. In all tests the specimens were heated to temperatures Ton of the onset of martensitic

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transformation (750-1000°C) for 20 min, after which the corresponding curves of cooling were plotted at ~6 deg/min. Findings: the peak of internal friction, as determined with the aid of a torsional pendulum, consists of a principal peak A and a secondary peak B, the latter detectable during careful measurements of internal friction in the process of cooling below the temperature of the principal peak (Fig. 1). Curve 3 (Fig. 1) shows a change in the height of peak A* on increase in frequency from 0.4 to 16 cps: the increase in frequency from 0.4 to 1 cps increases the height of the peaks but any further increase in frequency (to 16 cps) reduces this height sharply. With increase in oscillation amplitude the peaks A and B get displaced into the region of higher temperatures; then the height of the peaks (and particularly of A) sharply increases (Fig. 2). The sharp increase in the internal friction of austenitic steels in the temperature range of 120-160°C (Fig. 3) during their cooling from normalizing temperatures is due to γ $^{\rightarrow}$ M transformation. Thus, the highly sensitive internal-friction tests reveal the existence of a double γ \rightarrow M transformation due to the inhomogeneity of the grain composition of cold austenite; this could not be detected with the aid of the other physical tests used in this investigation. The nature of the peak B and the mechanism of $\gamma \rightarrow M$ transformation are as yet unclear.



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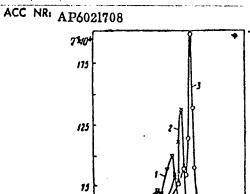


Fig. 3. Amplitude dependence of internal-friction peaks A and B for steel 1 when T_{on} = 850°C and ν = 1.2 cps:

 $1 - \eta = 0.3 \text{ kg/mm}^2$; $2 - \tau_2 = 2.5 \text{ kg/mm}^2$; $3 - \tau_3 = 3.3 \text{ kg/mm}^2$

Orig. art. has: 4 figures.

SUB CODE: 11, 20, 13/ SUBM DATE: 18Jan65/ ORIG REF: 005/ OTH REF: 002

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ENT(n)/T/ENT(t)/ELI 10927 - 65 SOURCE CODE: UR/0148/66/COO/CO5/0144/0146 ACC NRI AP6030180 AUTHOR: Postnikov, V. S.; Sharshakov, I. M.; Usanov, V. V. 3 ORG: Voronezh Polytechnical Institute (Voronezheskiy politekhnicheskiy institut) TITLE: Amplitude frequency dependence of the internal friction of certain steels SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1966, 144-146 TOPIC TAGS: internal friction, austenite transformation, plastic deformation, carbon steel, chromium steel, nickel steel, torsional vibration/50 carbon steel, Khl7N5M3 chromium steel, Khl6N6 chromium steel Khl6N11 chromium steel Any measure of internal friction is understandably divided into ABSTRACT: Any measure of internal friction is understandary divided two components: amplitude-independent and amplitude-dependent. This division is arbitrary since these forms of internal friction usually overlap one another and likewise can be interrelated. In connection with contradictory experimental data relative to the frequency relationship of the contributions of both types of internal friction and the almost complete lack of these data for low-frequency torsion vibrations, the present research was undertaken. Carbon steel 50 and Chromium-nickel steels Kh17N5M3, Kh16N6, and Kh16N11 were used. The internal friction was measured on a torsion pendulum on specimens 1 mm in diameter and 100 mm long. The shear strain amplitude was measured between 3 \cdot 10⁻⁵ to 8 \cdot 10⁻⁴ and frequency from 0.4 to 18 cps. Recording of data at low frequencies was done visually but at the high frequencies with an N700 vibration oscilloscope. UDC: 669.15:539.67 Card 1/2

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ACC NR: AP6030180

Before measurement of internal friction all specimens were annealed in a closed quartz tube at 1050°C for 4 hours. The Cr-Ni-steel specimens were later subjected to normalization at $800\text{--}1100^{\circ}\text{C}$ and the steel 50 specimens were quenched in water from 740°C .

Resulting data were in agreement with results obtained by others. The increase in shear strain amplitude to $1-2 \cdot 10^{-4}$ does not change the value of internal friction. Further increase in the shear strain amplitude leads to an increase in internal friction.

The increase in internal friction level with the normalizing temperature decrease is associated with the transformation of austenite into martensite and their different inclination to plastic microdeformation.

The increase in vibration frequency of the specimen from 0.4 to 2.5 cps for steel Khl7N5M3 (and Khl6Nll) and to 4 cps for steel 50 does not have any noticeable effect on the internal friction components. Further increase in vibration frequency of the specimen increases the internal friction whereupon the greater the shear strain amplitude the sharper the increase in internal friction. Orig. art. has: 4 figures. [JPRS: 36,774]

SUB CODE: 11, 20 / SUBM DATE: 17Dec64 / ORIG REF: 006 / OTH REF: 006

Card 2/2

AZAROV, A.S., kand. tekhn.nauk, dots.; USANOV, Ye.A., inzh., retsenzent; KUREPINA, G.N., red.izd-va; DENINA, I.A., red.izd-va; LEYKINA, T.L., red.izd-va; SPERANSKAYA, CV., tekhn. red.

[Mechanization and automation of technological processes in the machinery industry] Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov v mashinostroenii. Moskva, Mashgiz, 1963. 414 p. (MIRA 17:2)

SIMONOVA, N.I.; USANOV, Yu.Ye.

Synthesis of 4-methyl-1-phenyl-3-pyrazolidinone (phenidone "B").
Zhur.VKHO 7 no.2:239 '62. (MIRA 15:4)

1. Leningradskiy institut kinoinzhenerov. (Pyrazolidinone)

BLYUMBERG, I.B.; DIMITROV, R.V.; USANOV, Yu.Ye.

Kinetics of the processes of high-speed developing of cinemato-graphic materials. Zhur. nauch. i prikl. fot. i kin. 9 no.5: 336-341 S-0 '64. (MIRA 17:10)

1. Leningradskiy institut kinoinzhenerov (LIKI).

BLYUMBERG, I.B.; DIMITROV, R.V.; USANOV, Yu.Ye.

Investigating the temperature dependences in high-speed developing.

Zhur.neuch. i prikl.fot. i kin. 9 no.6:405-410 N-D *64.

(MIRA 18:1)

1. Leningradskiy institut kinoinzhenerov.

FOSPELOVA, G.L., nauchn. red.; USANOVA, A., nauchn. red.

[New finishing materials and the mechanization of the processes of furniture finishing; materials] Novye otdelochnye materialy i mekhanizatsiia protsessov otdelki mebeli; materialy. Moskva, TSentr. in-t tekhn. informatsii i ekon. issl. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1963. 43 p. (MIRA 17:7)

1. Soveshchaniye rabotnikov mebel'noy promyshlenno ti na temu "Novyye otdelochnyye materialy i mekhanizatsiya protsessov otdelki mebeli." Moscow, 1962.

KORSHUN, L.L.; NOTKIN, M.M.; STRADA, V.Yu.; TSVETKOVA, L.F.; KIMRYAKOV, N.A.; USANOVA A.P., red.

[The "NK" nitrourea coating Nitrokarbamidnaia gruntovka "NK" Moskva. TSentr. nauchno-iscl. in-t informatsii i tekhniko-ekon. issledovanii po lesnoi, tselliulozno-bumazhnoi, derevo-obrabatyvaiushchei promyshl. i lesnomu khoz., 1964. 15 p. (MIRA 17:12)

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1. Mebelinaya fabrika No.7 Soveta narodnogo khozyaystva Moskovskogo gorodskogo ekonomicheskogo rayona (for Kimryakov).

BAIASHOV, V.I., podpolkovnik meditsinskoy sluzhby; USANOVA, A.V.

Influenzalike form of food toximfection. Voen.-med.zhur. no.4:86
Ap '60. (FOOD POISONING)

(FOOD POISONING)

BALASHOV, V.I.; ARGUNOV, R.S.; SOKOLOV, I.A.; ROGOZHIN, V.A.; USANOVA, A.V.

Outbreak of food toxicoinfection caused by two types of Salmonella.
Zhur.mikrobiol., epid.i immun. 32 no.12:114 D '61.

(FOOD POISONING) (SALMONELLA)

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| usanova, G.V. | Tie . | USER/Electricity - Conservation (Contd) Dec 1947 tageous use of electric power, equipment must perform at optimum, and new more efficient methods should be adopted as soon as possible. Figures in tables for 1945 through 1947. | | Bational use of fuel and electrical power most important for the national economy. Most interesting one-page table gives relative consumption and norms set for various enterprises. Table takes in fuel and electric power. Also gives table showing average expenditure of electric power during drilling operations. Author states that for most advantage. | "Energeticheskiy Byull" No 12 | "Rationalizing the Consumption of Tuel and Electrical Power," V. G. Usanova, GlavVostokEnergo Heft, 4t pp | USER/Electricity - Conservation Dec 1947 Fuel - Conservation | |
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"Surgical Treatment of Fibromyomas." Fasis for digree of Cand. Odical Soi. Sub 21 Fab 50, Control inst for the Advanced Treatming of Physicians

Summary 71, h Sep 52. Dissertations

Fresented for Degrees in Science and Ongineering in Physics in 1950. From Vachernyaya Moskva, Jan-Dec 1950

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USSR/Medicine/Biochemistry - radiology

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Pub. 17-11/23

Author

: Usanova, M. I. and Shnol', S. E.

Title

: Distribution of tagged coffeine in the animal organism and its

transfer from mother to embryo

Periodical

: Byul. eksp. biol. i med. 7, 41-44, July 1955

Abstract

: Author investigated the progress of tagged coffeine in the animal organism, dynamics of its transmission from mother to embryo, and methods of its administration by experiments on rats. The rats were given 1 ml of an aqueous solution of coffeine with radioactive carbon C14 by subcutaneous injection. The coffeine was found in all organs and in the cerebrum - in pregnant rats also in the placenta and the tissues and organs of the embryo. One hour and 40 minutes after administration radioactivity can be observed simultaneously in all organs in the following order: kidneys, liver, lungs, cerebral hemispheres. (Distribution in the central nervous system will be taken up later in more detail.) 4 references, 2 USSR, 4 since 1940, graphs

Institution

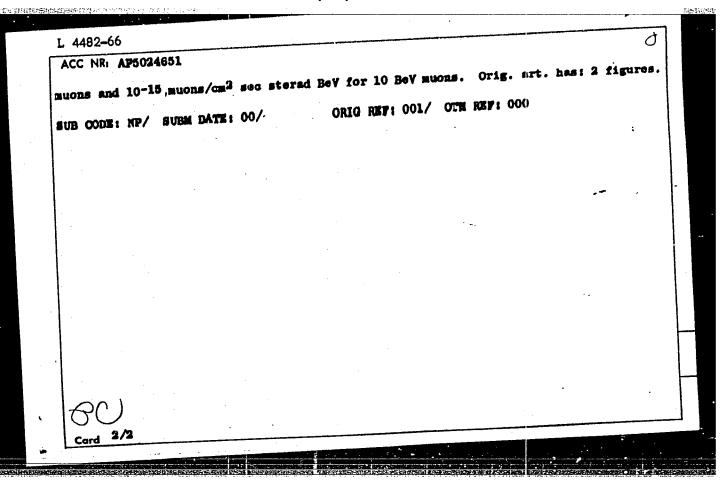
: Chair of Obstetrics and Gynecology (Head: Prof. F. A. Syrovatko)

and Chair of Medical Radiology (Head: Prof. V. K. Modestov)

Central Institute for the Advanced Training of Physicians, Moscow

Submitted

: 24 May 1954



CHERMOBEREZHSKIY, Yu.M.; ZUEKOVA, S.N.; USANOVA, S.D.; AFANAS'YEVA, L.V.

Study of the suspension effect. Koll. zhur. 27 no.5:785-783 S-0 '65.

(MIRA 18:10)

1. Leningradskiy universitet imeni Zhdanova.

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KALYAYEV, A.; USANOVA, Ye.

"Laboratory Methods in Soviet Sanitation Practices," Meditsinskiy Rabotnik, Vol 17, No 96, 30 Nov 1954 p 2.

Physician at the laboratory of a hospital in Yeniseysk.

Translation W-31326, 28 June 54

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CULTIVATED PLANTS. Potatoes. Vegetables. Cheurbits BIOLOGIYA, NO. 4, 1959, No. 15660

AUTHOR MET.

Usanova, Z.; Balyakova, G. Moscow Agric. Acad.

TITLE

.Certain Characteristics of the Growth and Development of American artichoke in the Moscow Chlast.

ORIG. FUE. :

Sb. stud. nauchno-issled. rabot. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1958, vyp. 8, 89-95

AESTRACT

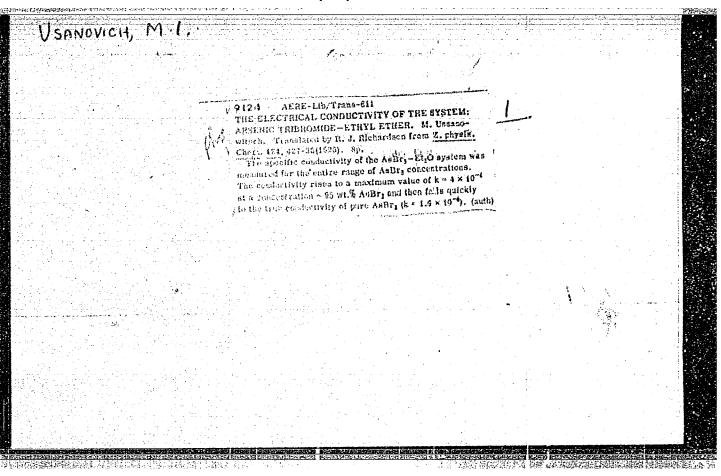
The authors think it is inaccurate to divide the American artichoke sorts into the red-tuber varieties, according and white-tuber to bush type all sorts can be divided into: (1) low-growth, drooping, intensely branching krasnaya, Belaya uro-(Kievskaya zhaynaya, Vadim) does not flower near Moscow; (2) high-growth, with straight-stand-

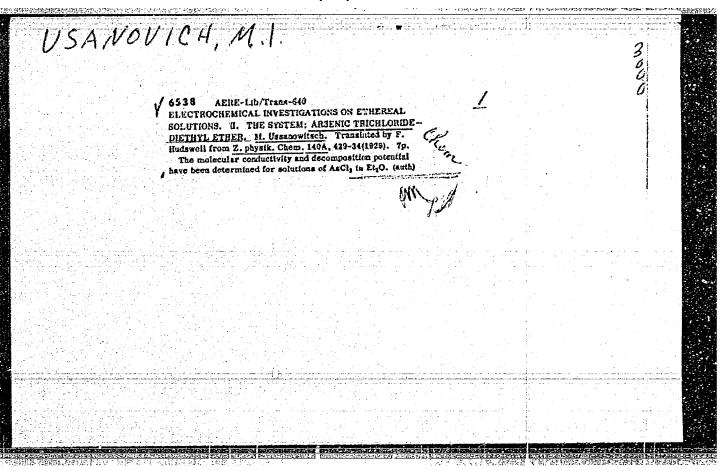
ing stalk, few branches (Tambovskaya

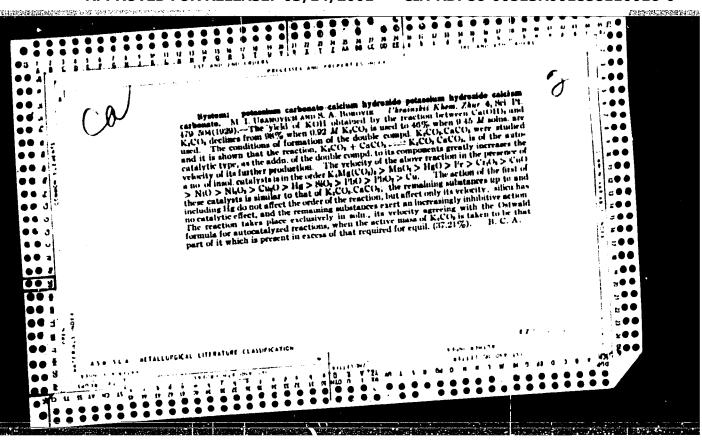
: Krasnaya, Suratovskaya, Hybrids 15,120,177-35

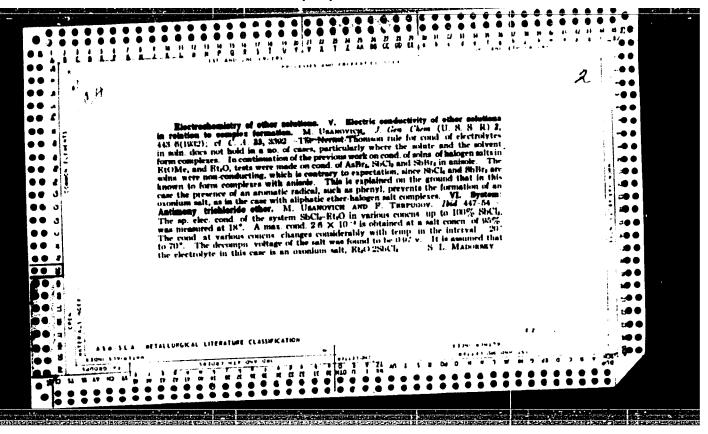
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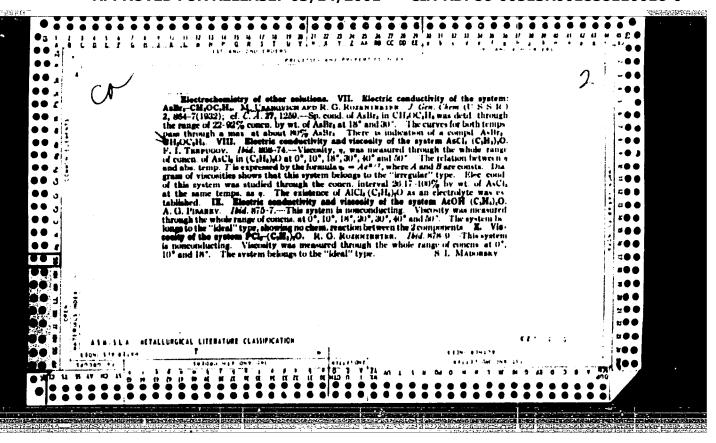
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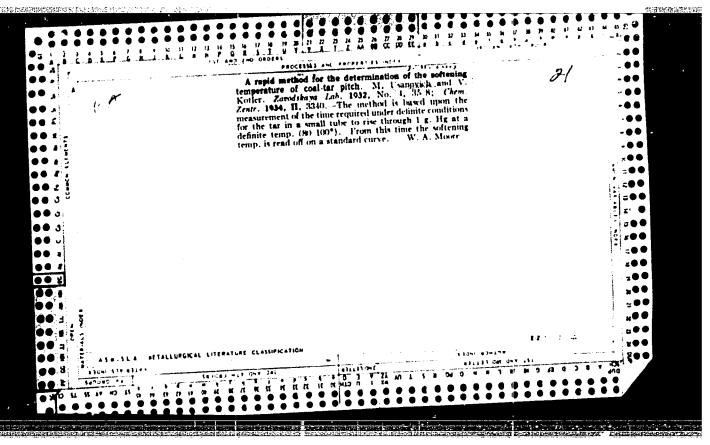


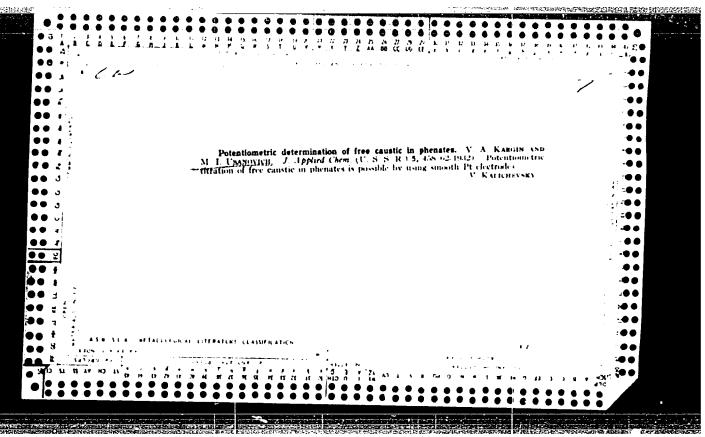


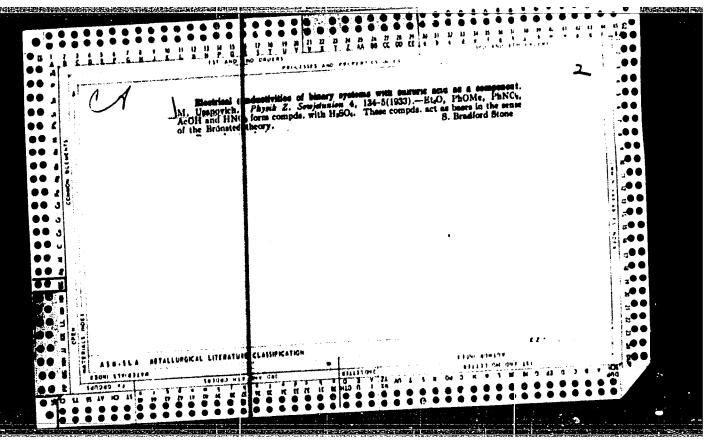


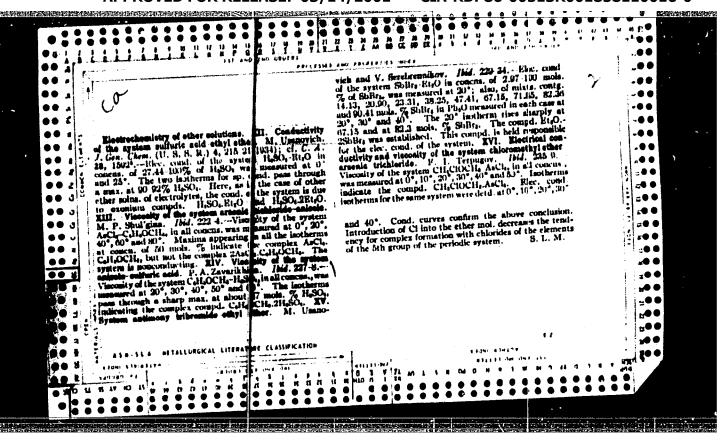


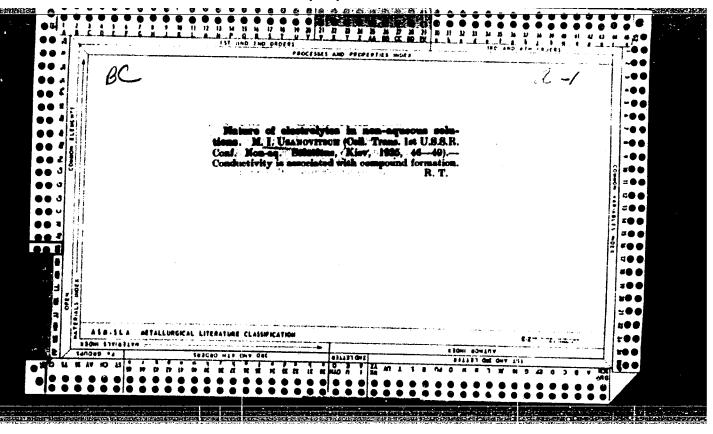


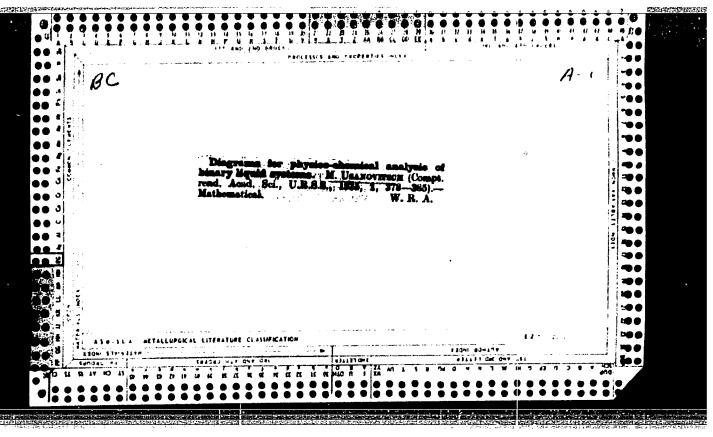


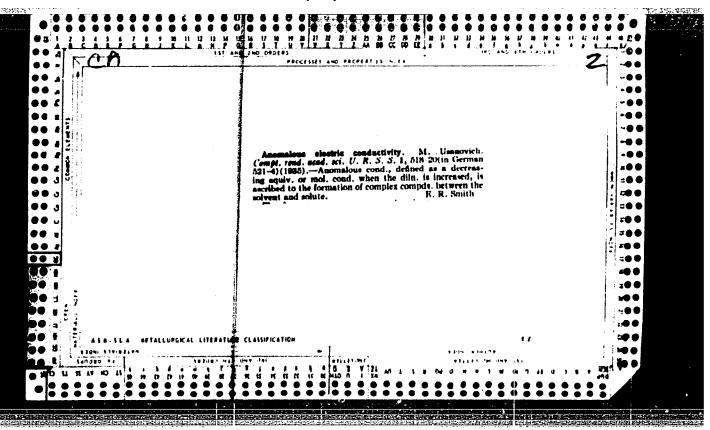


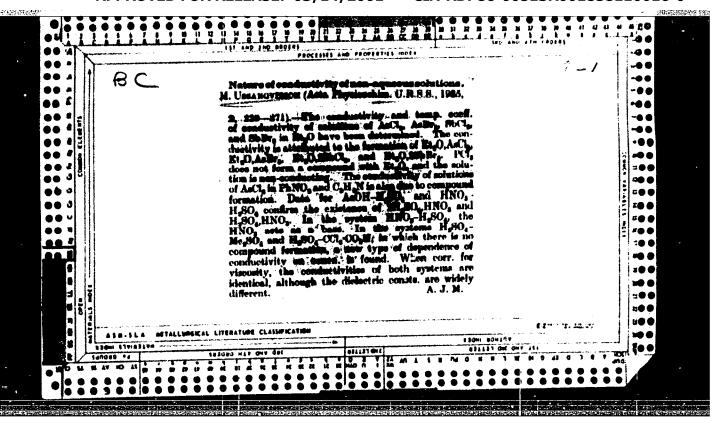


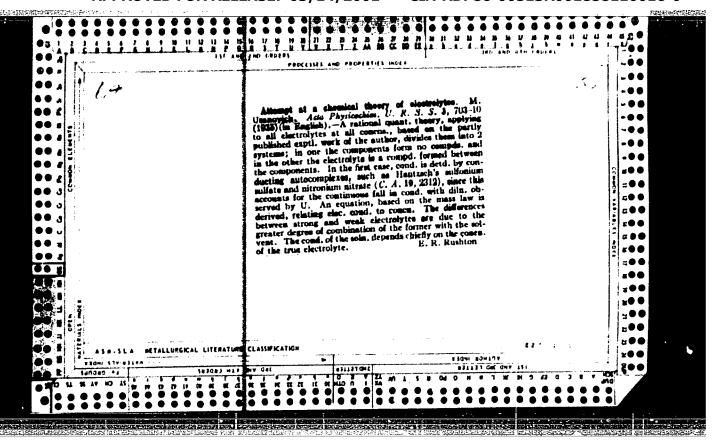


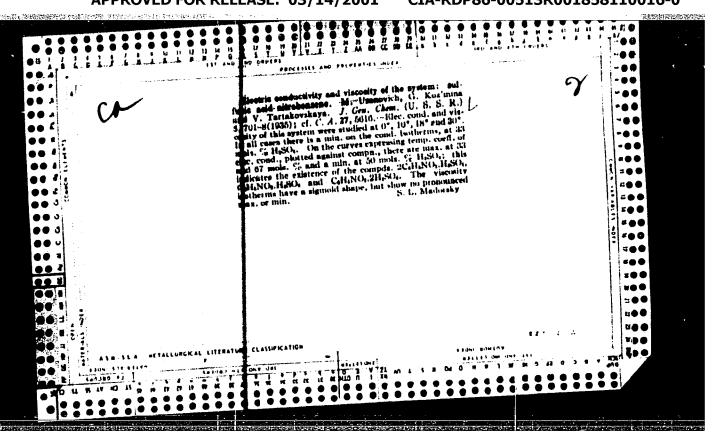


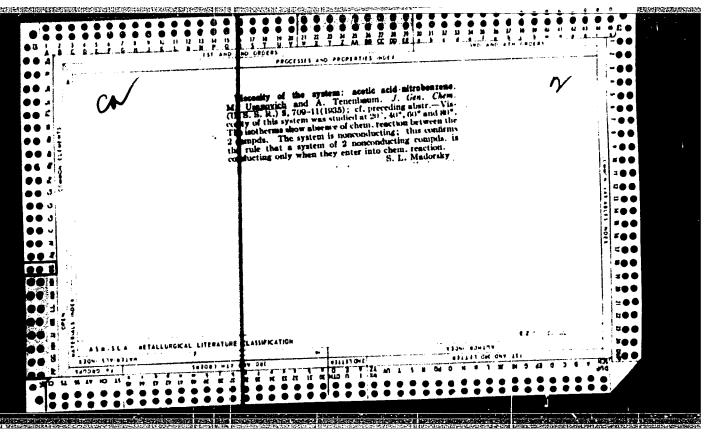


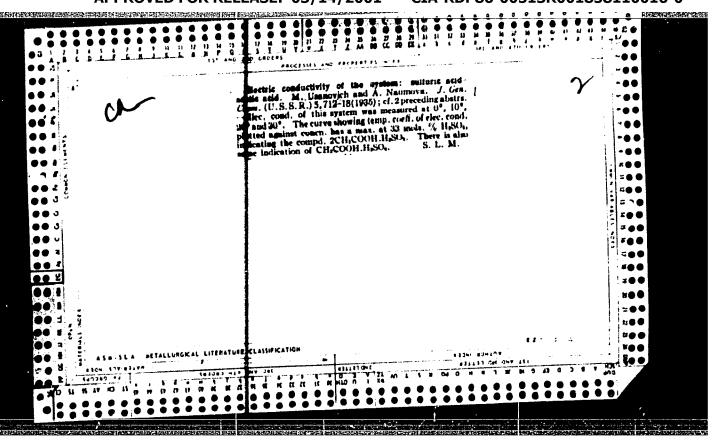


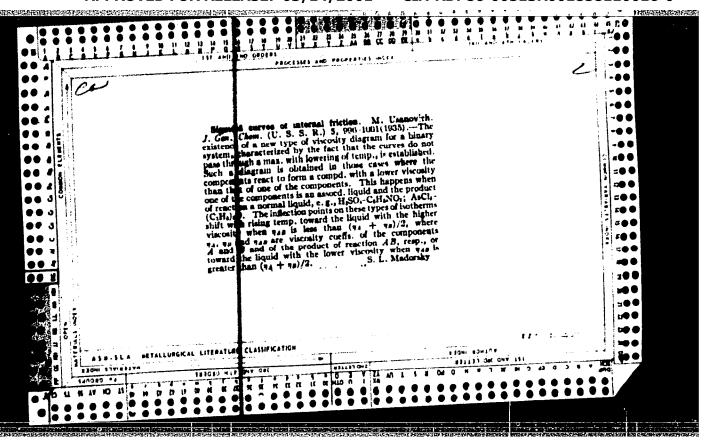


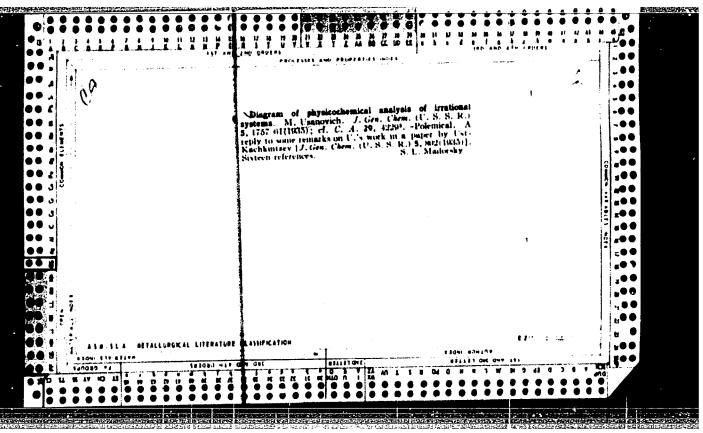


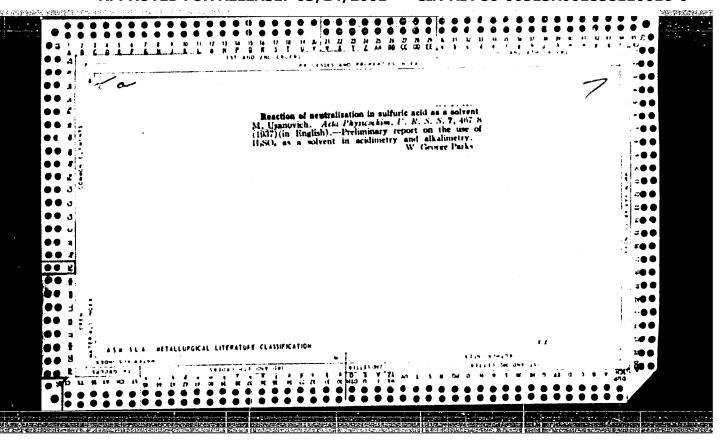


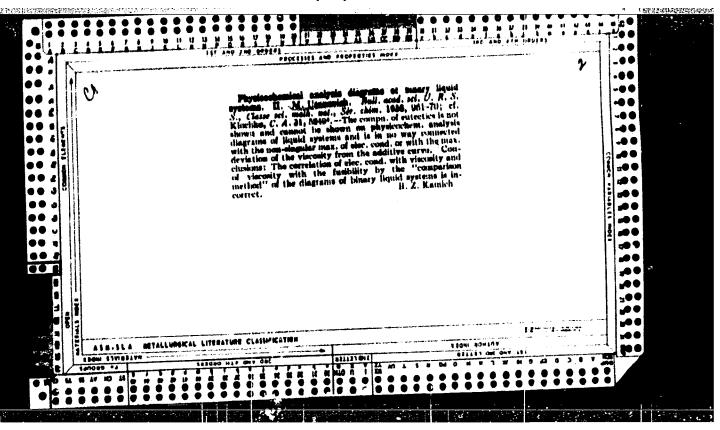


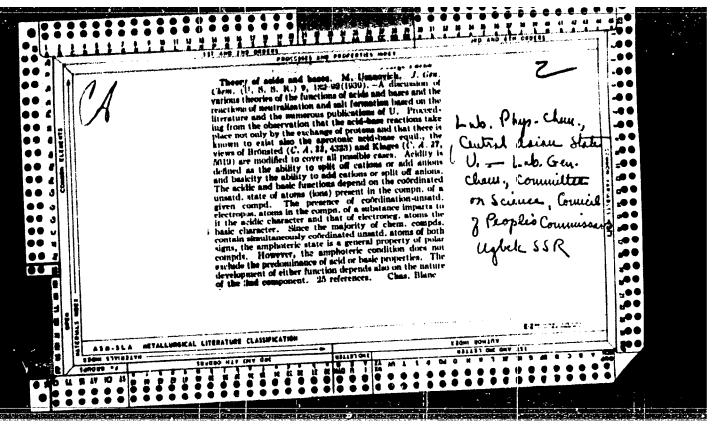


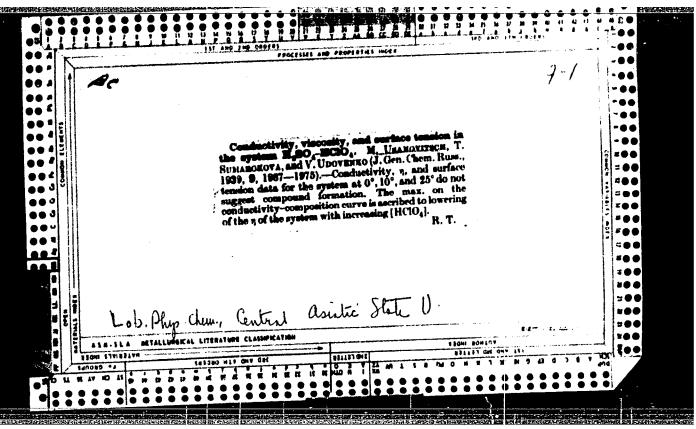


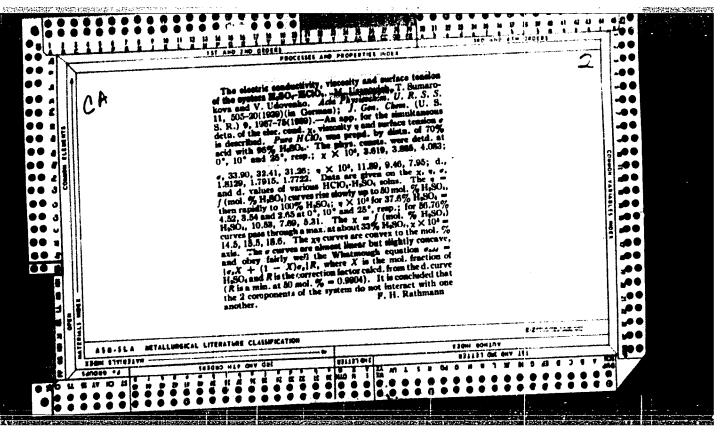


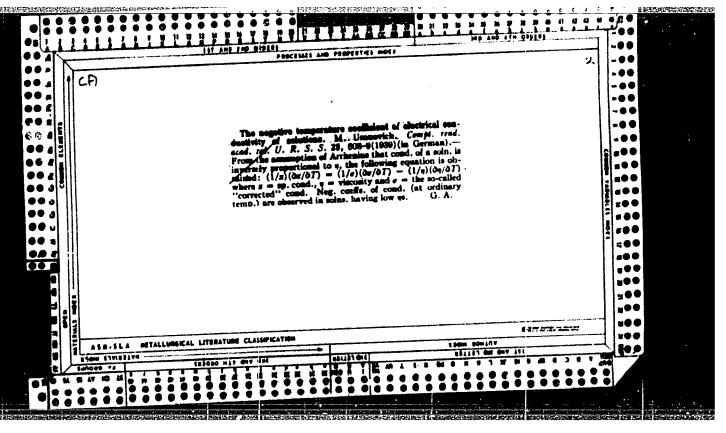


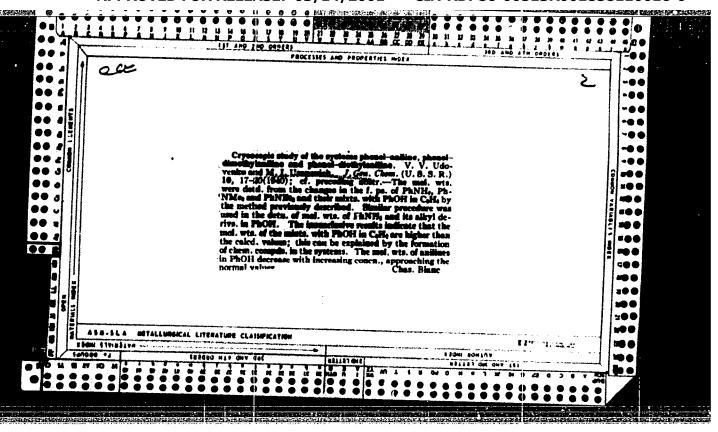


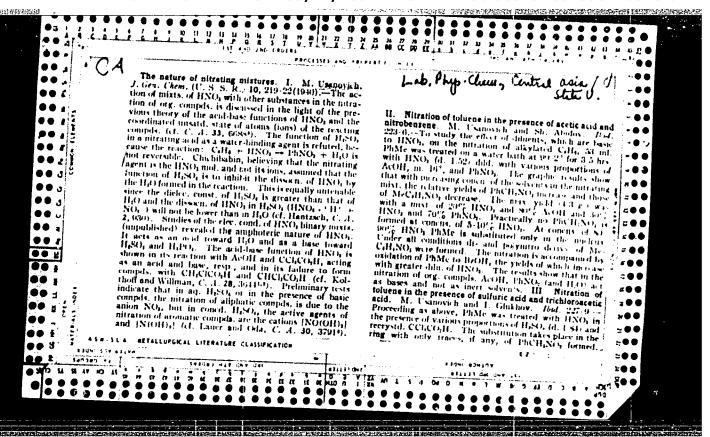


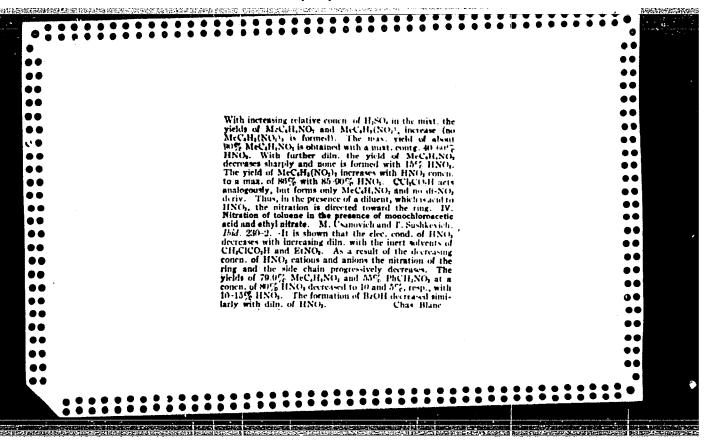


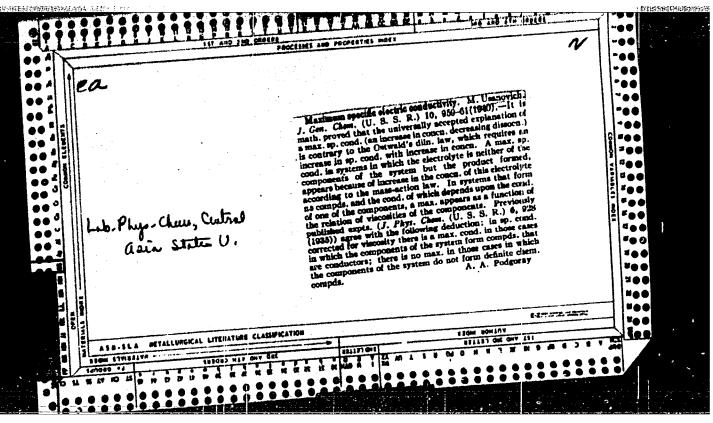


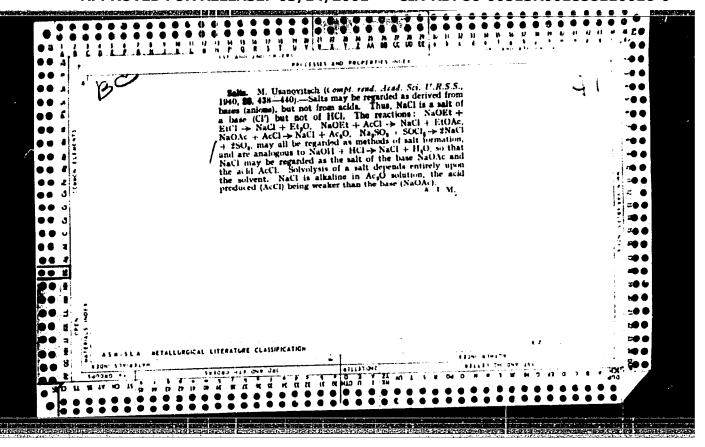


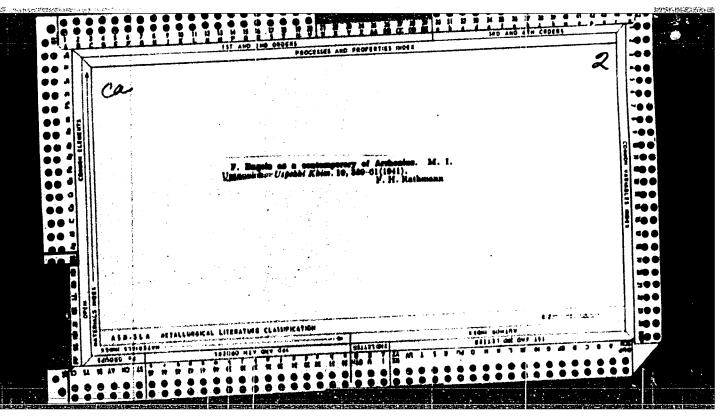


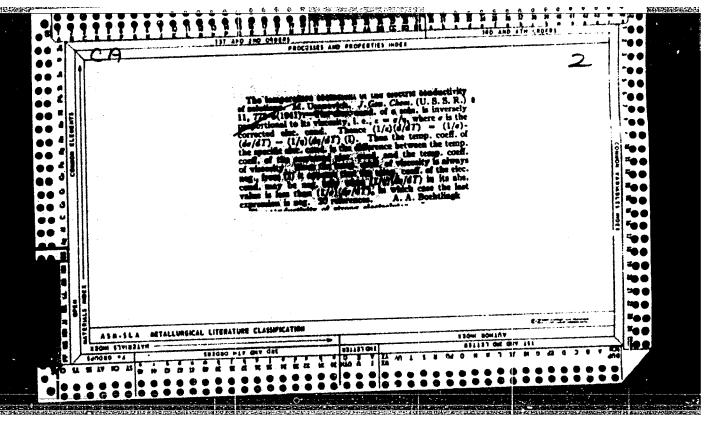


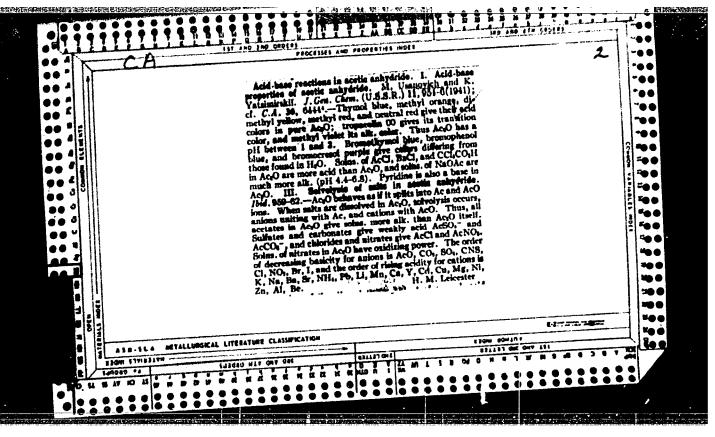




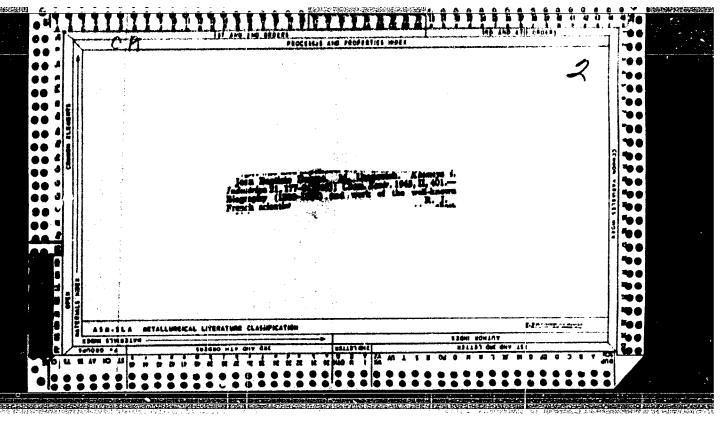


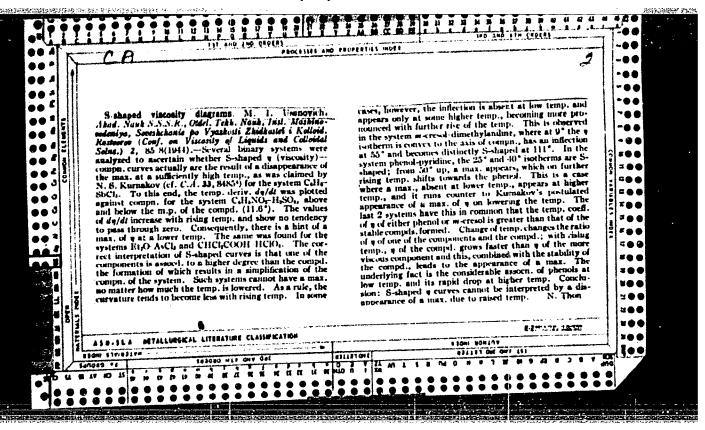


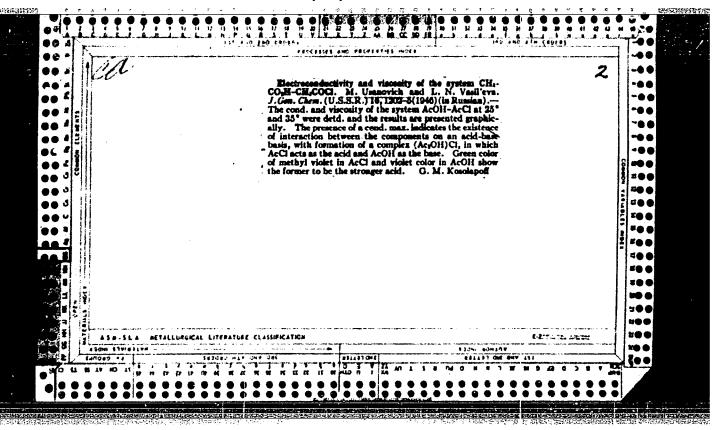




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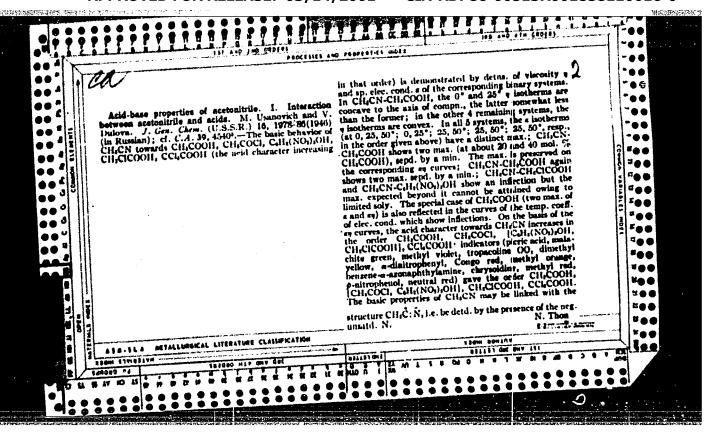


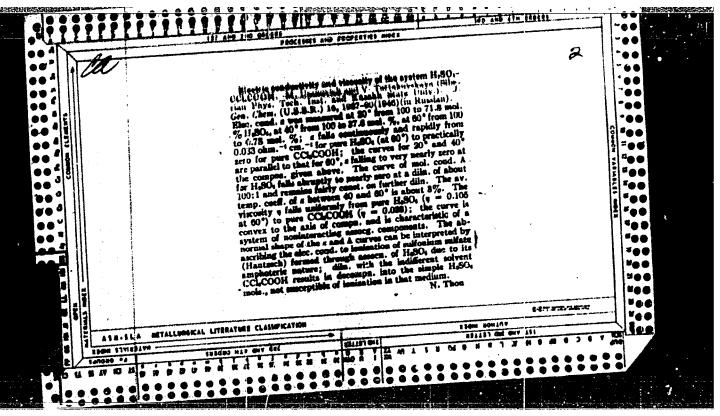


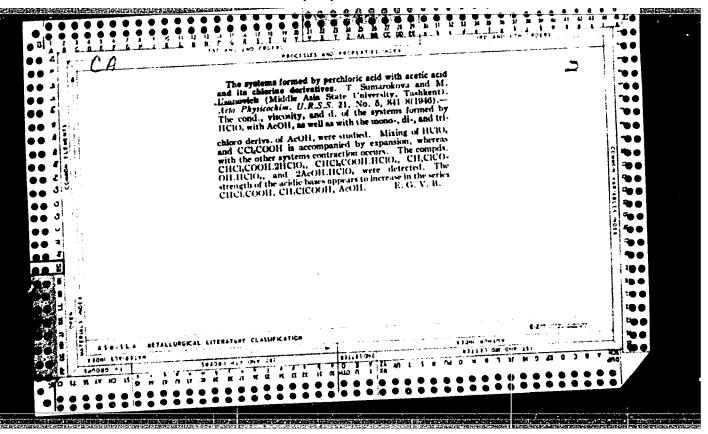


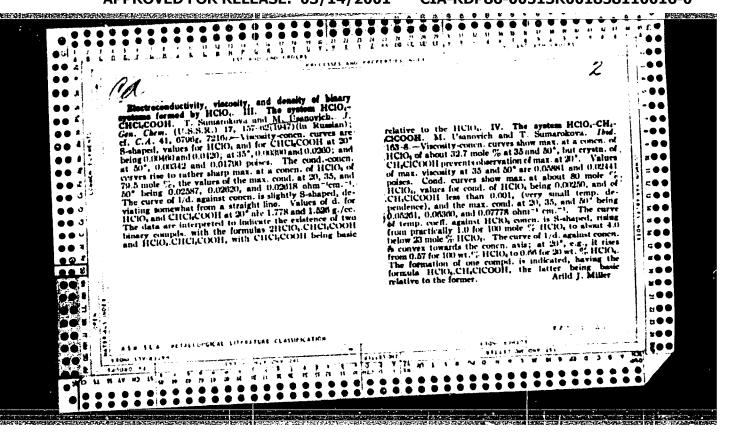
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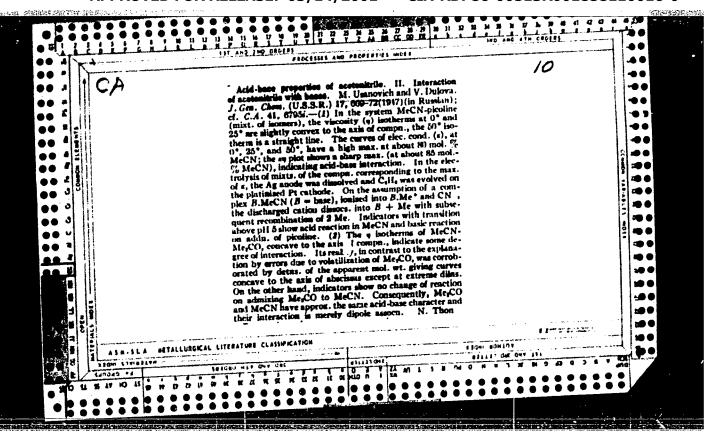


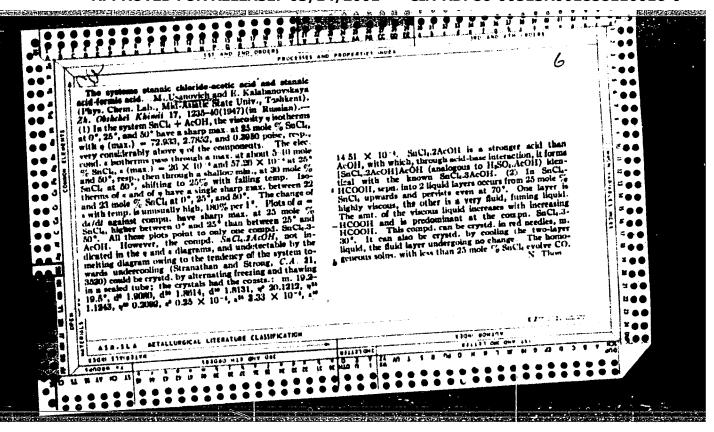


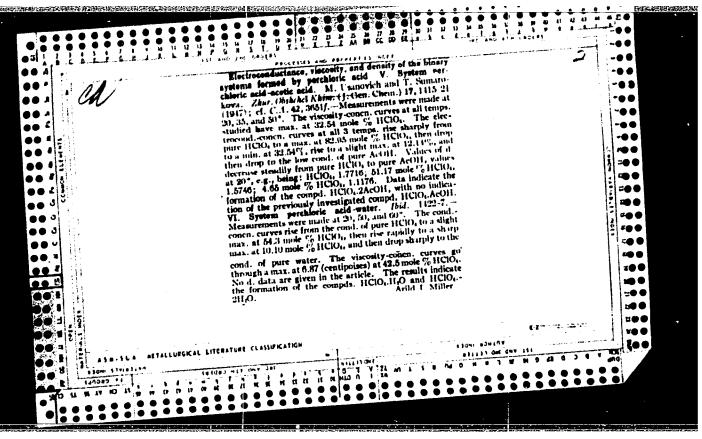


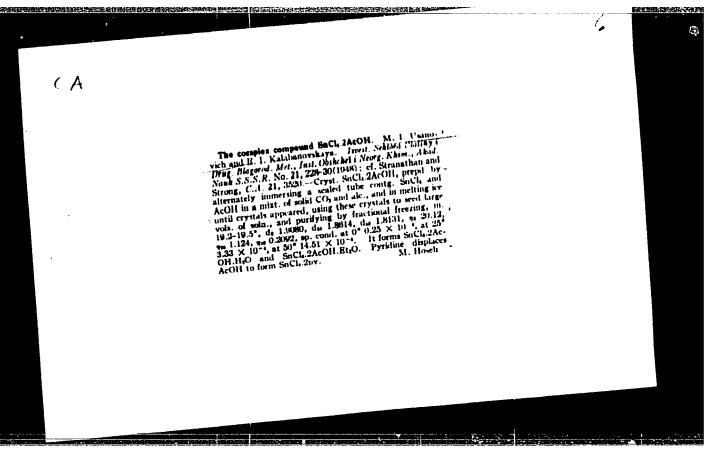
Usanovich, M., and Sumarokova, T.- "Electroconductivity, Viscosity and Density of Binary Systems of Binary Systems formed by HClO₄. IV. The System HClO₄.—CH₂ClCOOH." (p. 168)

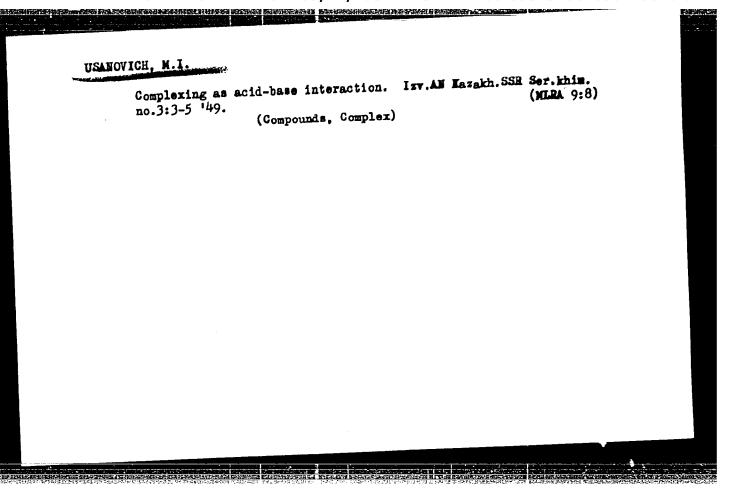
SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1947, Vol.17. No. 2.

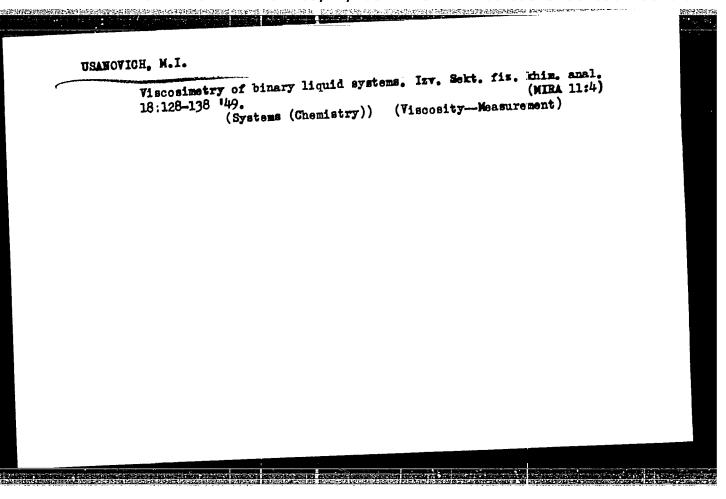












USANOVICH, M. 1., SHIKHANOVA, N.

Chlorides.

Compound SnCl₄ with C₆H₅COOH., Izv. Sekt. plat. i blag. met. no. 25, 1950.

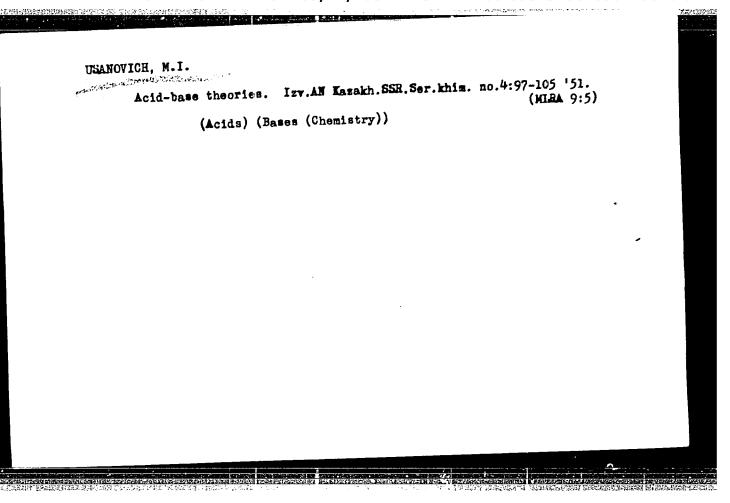
9. Monthly List of Russian Accessions, Library of Congress, April 1953/2 Unclassified.

USANOVICH, MIT

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The 3. R. Lewis theory of adds and haves. M. L. Lounov ch (S. M. Riter K. 1911). Live Land. Mountain Consideration Flatley in Proc. 1912 of the Mountain Consideration of November Flatley. And J. Mark S. S. S. W. 21, 76 St. (1950). Many Changes and selection of the arrestness of Economic States and St. M. M. Michael Mark S. S. S. W. 21, 76 St. Grand Grand St. M. M. Michael St. M. M. Michael M. Michael M. Michael M. Michael M. M. Michael M. M. Michael M. M. Michael M. Michael M. M. Michael M. M. Michael M. M. Michael M. Mic

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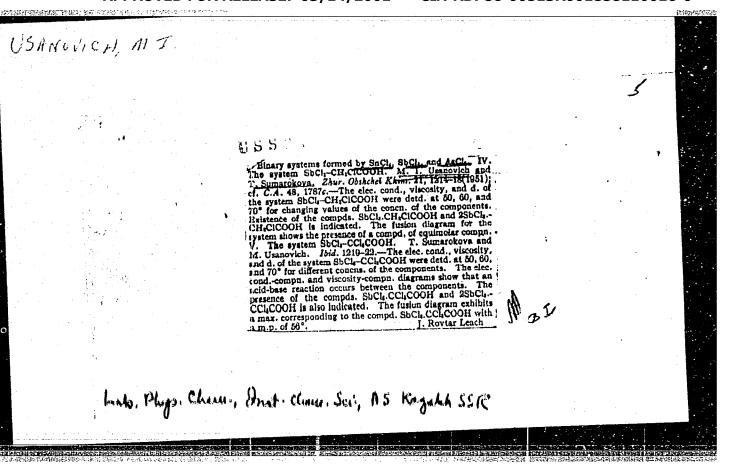
"Binary systems containing Smil, Sbel, and Acel, II. The system Smil, 1991, Cook and Smil, Chell, Cook." by T. Suturnion of and M. Ustinovich. (p.974)

So: Journal of General Chemistry (Zhumal Obshchei Khimii) 1951, Volume 21, No. 6

USANOVICH, M.

"Binary systems containing SnCi₄, SbCl₃, and AsCl₃. III. The system SbCl₃-CH₃COOH." by <u>Usanovich</u> and T. Smarokova. (p.987)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Volume 21, No. 6



| USANOVICH, M. | Dystectic max on fusibility diagram represented compd SbCl ₂ · CCl ₃ COOH This is 1st established case of CCl ₃ ss additive or oxonium base. | USSR/Chemistry - Antimony Compounds (Contd) | · · | Studied elec cond, viscosity, density SbCl3-CCl3COOH at 50, 60, 70°C. Elec viscosity diagrams showed presence of interaction between components and of SbCl3 · CCl3COOH and 2SbCl3 · CCl3COOH | "Zhur Obshch Khim" Vol XXI, No 7, 1219-1222 | "Binary Systems Formed by SnCll, St V. The System SbCl3-CCl3COOH," T. M. Usanovich, Lab Phys Chem, Inst (Kazakh SSR | 91 USSR/Chemistry - Antimony Compounds | |
|------------------|---|--|-------|---|---|---|--|--|
| धाम्म र्थ | gram of system DOH (mp 56°). CC13COOH acting | le Jul 51 | BITTE | density of system 7. Elec cond and 8 sence of acid-base 8 and of compds CCl ₃ COOH. | 1219-1222 | SbCl3, and AsCl3 F. Sumarokova, t Chem, Acad Sci | | |

USAMOVICH, M.

"On the acidic properties of MnO₄," (p. 1964)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 11.

USANOVICH, M. I.

183746

USSR/Chemistry - Electrolysis of Water

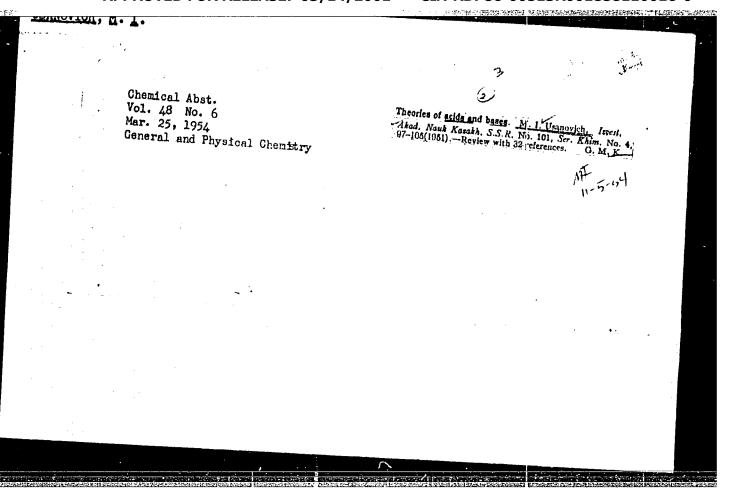
Jun 51

"Electrical Conductivity and Viscosity of System KOH - K2CO3 - H2O," M. I. Usanovich, T. I. Sushkevich

"Zhur Prik Khim" Vol XXIV, No 6, pp 590-592

Detd elec cond of 18.86-41.59% KOH solns contg 1-31% $K_2\text{CO}_3$ at 25, 50, and 97°C. Sp cond of KOH decreases with addn of $K_2\text{CO}_3$. Detd viscosity of 2 concns of KOH with different $K_2\text{CO}_3$ content at 25 and 50°C. It increases with addn of $K_2\text{CO}_3$. Sp cond is lowered at expense of increased viscosity. KOH solns of these concns are used in industrial electrolysis of water.

183T46



USANOVICH, M.T.

TIKHOV, G.A., redaktor; USANOVICH, M.I.; SUVOROV, N.I., kandidat biologicheskikh nauk, zamestitel redaktora; KARIMOV, M.G., kandidat fizikomatematicheskikh nauk; KUCHEROV, N.I., kandidat fiziko-matematicheskikh nauk; GORSHENIN, D.S.; FEDOROV, N.N., sekretar redkollegii;
ROROKINA, Z.P., tekhnicheskiy redaktor; RZHONDKOVSKAYA, L.S., redaktor.

[Discussion on the topic: Principal achievements of the astrobotany sector and the problem of the possibility of life on other planets (September 25-27, 1952)] Diskussiia na temu: osnovnye dostizheniia sektora astrobotaniki i vopros o vozmozhnosti zhizhi na drugikh planetakh (25-27 sentiabria 1952 g.) Alma-Ata, Isd-vo Akademii nauk Kazakh. SSR. 1953. 167 p. (Akademiia nauk Kazakhskoi SSR. Alma-Ata, Sektor astrobotaniki. Trudy v.2) (MLRA 10:1)

- 1. Deystvitel'nyy chlen Akademii nauk Kazakhskoy SSR (forTikhov).
- 2. Chlen-korrespondent Akademii nauk Kazakhskoy SSR (for Usanovich).
- 3. Otvetstvennyy sekretar: redaktsii zhurnala "Vestnik Akademii nauk Kazakhskoy SSR" (for Gorshenin). 4.Referent fiziko-matematicheskogo otdeleniya Akademii nauk Kazakhskoy SSR (for Fedorov).

 (Life on other planets)

USANOVICH, M.I.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001858110016-0"

The existence of antimony tetrachloride M. I. Uanno-

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TIKHOV, Gavriil Adrianovich, astronom; USAHOVICH, M.I., otvetstvennyy redaktor; RZHONDKOVSKAYA, L.S., redaktor; HOROKINA, Z.P., tekhnicheskiy redaktor

[Principal works; in five volumes] Osnovnye trudy; v piati tomakh. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR. Vol.1. [Astrophysics (1897-1919)] Astrofizika (1897-1919). 1954. 334 p. (MIRA 10:3)

1. Chlen-korrespondent Akademii nauk SSSR, deystvitel'nyy chlen Akademii nauk KazSSR (for Tikhov) 2. Chlen-korrespondent Akademii nauk KazSSR (for Usanovich)

(Astrophysics)

USANOVICH, M.

USSR/Chemistry - Quantitative analysis

Card 1/1 8 Pub. 22 - 29/49

Authors 1 Usanovich, M.; Sumarokova, T.; and Nevskaya, Yu.

Title Cryoscopic titration

Periodical : Dok. AN SSSR 98/4, 617-618, Oct. 1, 1954

The application of cryoscopy for quantitative analysis and for studying reactions of formation of complex compounds, soluble and insoluble
in any given cryoscopic solvent, was investigated. The results obtained through cryoscopic titration of complex compounds appear to
satisfy all requirements of analytical accuracy. In addition, cryoscopic titration reveals new very-broad possibilities for quantitative
analysis of organic substances. Two USSR references (1941 & 1949).

Graphs.

Institution: ...

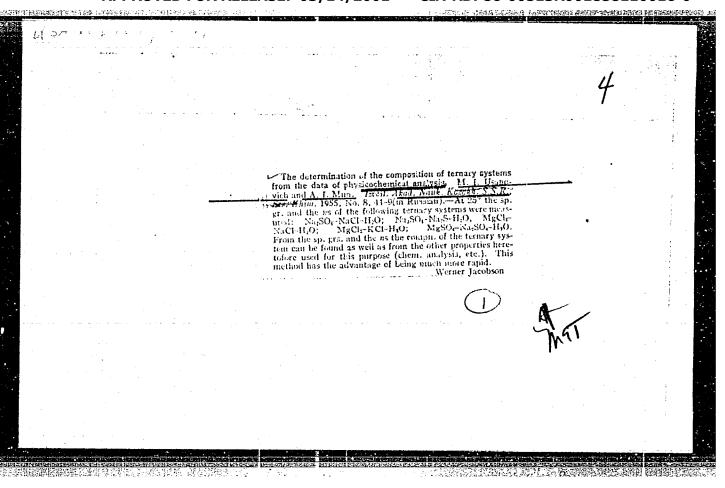
Presented by: Academician A. P. Vinogradov, May 6, 1954

TIKHOV, Gavriil Adrianevich; USABOVICH, M.I.; VOZHEYKO, I.V., redakter; RCECKINA, Z.P., tekhnicheskiy redaktor.

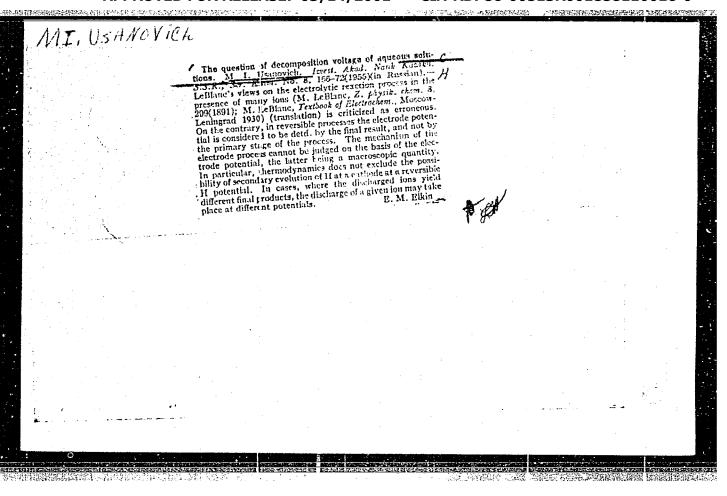
[Principal werk; in five velumes] Osnevnye trudy; v piati temakh. Alma-Ata Isd-ve Akademii nauk Karakhskei SSR, Vel.2 [Astrephysics and atmempheric eptics (1940-1945)]Astrefizika i atmempherania optika (1910-1945). 1955. 381 p.

1.Chlen-kerrespendent Akademii nauk SSSR, deystvitel'nyy chlen AN KarSSR (for Tikhey).2.Chlen-kerrespendent AN KarSSR (for Usanevich).

(Astrophysics) (Astrenemical photegraphy)



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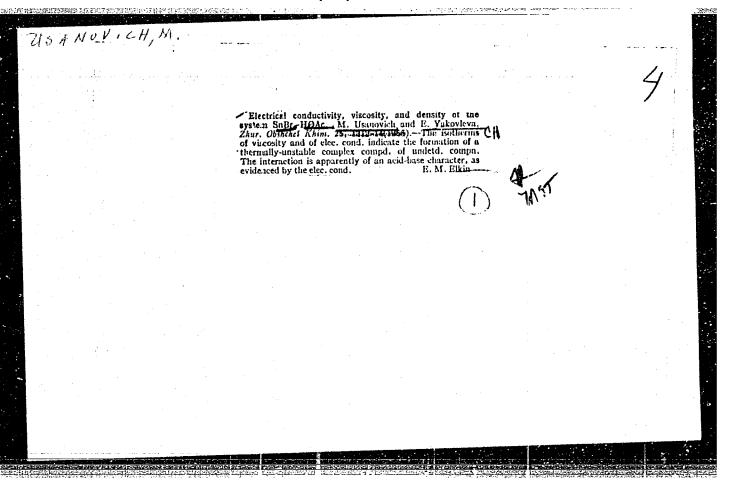
V Ozonium compounds of Lesters, with organic solds. I.

M. Hammelch, K. Blotalov, and L. Kramm dans. Zhor.

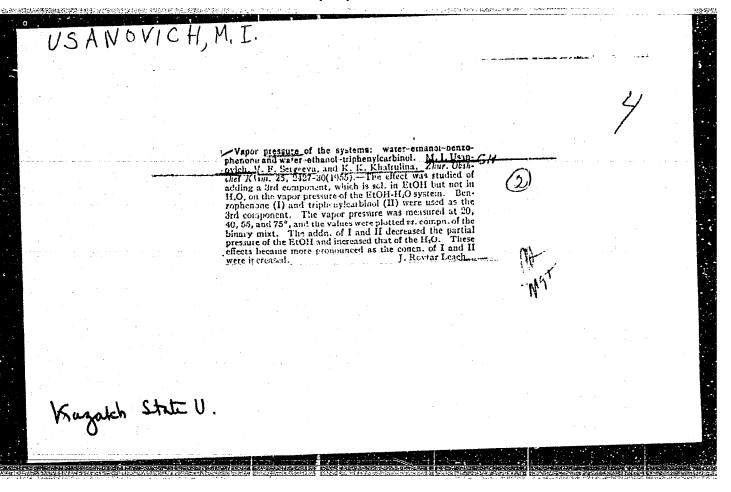
M. Hammelch, K. Blotalov, and L. Kramm dans. Zhor.

S. 403-44(1955) J. Gre. Chm. U.S.S.R.
125, 403-44(1955) J. Gre. Chm. U.S.S.R.
125, 403-44(1955) High Lambalation.—The values of d. and viscosity at 25°, 40°, and 60° were detd. for the binary systems RoOl-EtoOke, Buolox-AcOll, Anno.Cx-AcOlf, and the vapor pressures of the binary systems Buolox-AcOlf, and the vapor pressures of the binary systems Buolox-AcOlf, and the vapor pressures of the binary systems Buolox-AcOlf, and EtoAs-AcOlf are follows: In the component interaction. In Buolox-AcOlf, system three is an indication of mutual interaction, although the AcOlf asseen. is still the predominant factor; the vapor pressure of the system shows neg ceviation from Raoult's law, and has an inflection point at user 60% molar component pressure of the system shows neg ceviation from Raoult's law, and has an inflection point at user 60% molar component interaction, but the absence of electrical states of the system when song control from Raoult's law, and has an inflection point at user 60% molar component interaction, but the absence of electrical states of the system shows a max, and a type of the system shows a max, and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max, and a max and a type. The Amolocacolf system shows a max, and a type. The Amolocacolf system shows a max and a max and a type. The Amolocacolf system shows a max and a max and a type. The Amolocacolf system shows a max and a max and a type. The Amolocacolf system shows a max and a max and a type. The Amolocacolf system shows a max and a type. The Amolocacolf system shows a max and a type. The Amolocacolf system shows

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AID P - 2786

Subject

: USSR/Chemistry

Card 1/1

Pub. 152 - 14/19

Authors

: Usanovich, M. I. and A. I. Mun

Title

Determination of the composition of the system NaCl-Na2SO4-H2O by specific gravity and refractive

index

Periodical: Zhur. prikl. khim. 28, 4, 436-440, 1955

Abstract

: A description of the method is given. The composition of the solutions can be determined very rapidly and with great accuracy (error: 10.5%). One table, 3 diagrams, 4 Russian references: 1930-1947).

Institution:

Institute of Chemical Sciences of the Academy of

Sciences of the Kazakh SSR

Submitted: My 3, 1954

KOZLOVSKIY, Mikhail Tikhonovich; GLAZTRINA, D.W., redaktor; USANOVICH,

W.L., redaktor; FEDOROV, W.V., tekhnicheskiy redaktor.

[Mercury and amalgams in electro-chemical methods of analysis]

Rtut' i amal'gamy v elektrokhimicheskikh metodakh amaliza. AlmaRtut' i amal'gamy v elektrokhimicheskikh sisR., 1956. 185 p. (MLRA 9:4)

Ata, Isd-vo Akademii nauk Karakhskoi SSR, 1956. 185 p. (MLRA 9:4)

(Mercury) (Amalgams) (Electrochemistry)

CIA-RDP86-00513R001858110016-0

INSANOVICH, MIL.

USSR/Atomic and Molecular Physics - Liquids

D-8

Abs Jour

: Ref Zhur - Fizika, No 1, 1958, 825

Author

: Usanovich, M.I.

Inst

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Title

: On the Viscosity of Liquid Mixtures.

Orig Pub

: Izv. AN KazSSR, ser. Khim., 1956, vyp. 10, 30-39

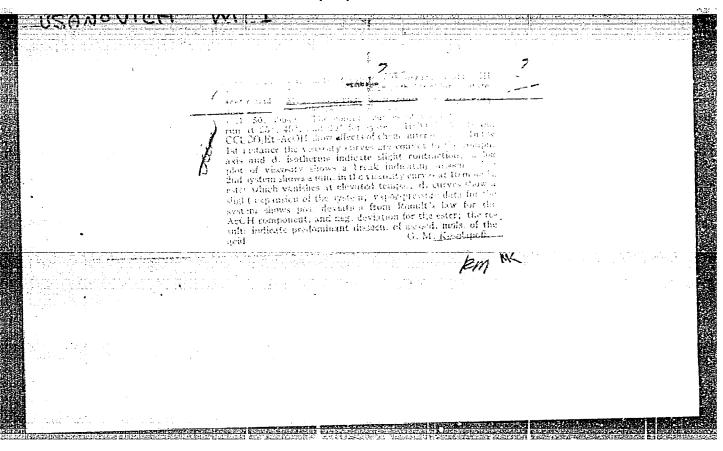
Abstract

: The following empirical equation is proposed for the isotherm of the viscosity of an ideal multi-component mixture:

$$\gamma = \chi_A \gamma_A + \chi_{B \gamma_B} + \cdots \tag{1}$$

where x_A and x_B are the molar fractions of the components. This leads to a general equation for ideal binary systems, $(\ln \eta - \ln \eta_B)/(\ln \eta_A - \ln \eta_B) = x_A$. The formula (1) is based on the assumption that the activation energies

Card 1/2



USONOVICH, M

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8

Analysis. Phase Transitions

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26169

Author : M. Usanovich, Ye. Pichugina

Inst : Academy of Sciences of Kazakh SSR Title : System Stannic Chloride - Phenol

Orig Pub : Zh. obshch, khimii, 1956, 26, No 8, 2125-2130

Abstract : The viscosityn , the density d, and the specific electri-

cal conductivity κ of the system C₂H₃OH (I) - SnCl₂ at 20, 40, 60 and 80°, as well as the vapor pressure p at 40, 60 and 80° were measured. The isotherms of η pass through a maximum, the position of which changes from 90 mol. θ of I at 80° to 85 - 87 mol. θ of I at 20°. The isotherms of κ adjusted for η have a maximum at 84 to 85 mol. θ of I at all temperatures under study. The magnitudes of η and the adjusted κ drop sharply with the temperature rise. On the basis of the obtained data, considerations in favor of the

Card : 1/2

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8
Analysis. Phase Transitions.

Abs Jour: Ref Zhur - Khimiya, No 8, 1957, 26169

formation of the compound SnCl; \(\frac{1}{4}C_{\chi} \rm H_{\chi} \rm O \rm (II) \) in the system are expressed. The results of measurement of d and p confirm the presence of a compound. The structure \(\sum_{\chi} \chi_{\chi} \chi

Card : 2/2

HERMENICK A.

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8

Analysis. Phase Transitions.

Abs Jour: Ref Zhur - Khimiya, No 8, 1957, 26168

Author: M. Usanovich, Ye. Pichugina

Title : Systems Produced by Tin with Nitrobenzene and m-Dinitroben-

zene.

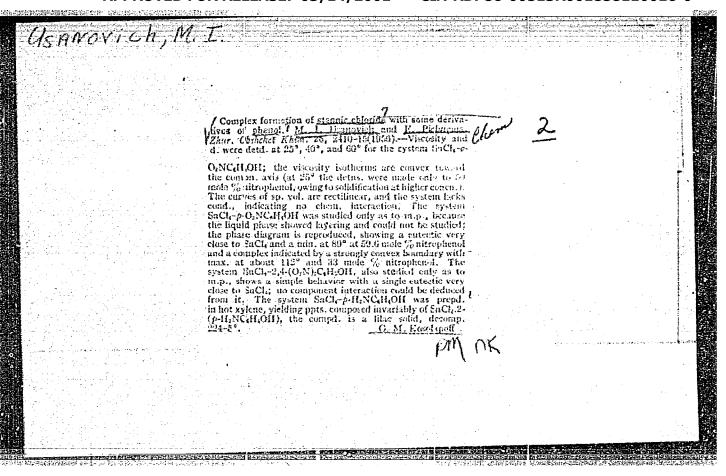
Orig Pub: Zh. Obshch. khimii, 1956, 26, No 8, 2130-2134

Abstract: The viscosity and density of the system SnCl4 - C.H.-NO. (1)

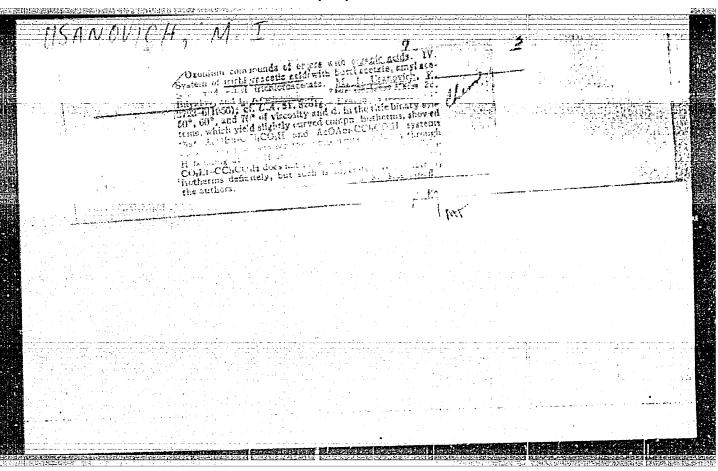
at 20, 40, 60 and 80° and of the system $SnCl_4 - m - C_4 H_{\nu}(NO_{\nu})_{\nu}$ (2) at 80 and 100° , as well as the fusibility of the latter were studied. The formation of the compound $SnCl_4 \cdot 2C_6 H_{\nu}NO_{\nu}$ in the system (1) was confirmed; the data (Reihler H., Hake A., Zbl., 1927, 1, 1808) about the existence of a compound of the composition 1: 1 were not confirmed. The presence of interaction between the components in the system (2) was established by the viscosity and the density methods. No information concerning the composition of the forming compound was obtained. The interaction of components is not

indicated on the fusibility diagram.

Card : 2/2



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| Standard State | 40°, 60°, and 60° shows a ma | s, of viscosity at 60 mole | 79 | | | |
| | PhOMe at 21°; at higher ter | ip, this is displayed town min, that though lown | :G | | | |
| | 10°, 60°, and 80° shows a ma PhOMe at 20°; at higher ter f SuCk, with appearance of a MaOPh common. Curves of d | , are rectilinear. Thus ! | lie _. | | | |
| | McOPh comm. Curves of a complex SaCh, 2McOPh appear | ently extits. G. M. fa- | | | | |
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TIKHOV, G.A., akademik; INSANOVICH, M.I., otvetstvenyy red.; RZHOHDKOVSKAYA, L.S., red.; ROROKINA, Z.P., tekhn.red.

[Principal works: in five volumes] Osnovnye trudy; v piati tomakh. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR. Vol.3. [Astrophysics (1912-1956)], Astrofizika (1912-1956). 1957. 233 p. (MIRA 11:1)

1. Chlen-korrespondent Akademii nauk SSSR (for Tikhov). 2. AN MazSSR (for Tikhov). 3. Chlen-korrespondent AN MazSSR (for Usanovich).

(Astrophysics)